

(ii) said radio transceives a duplex telephonic communication with the plurality of stations on the selected frequency wherein:

10 (a) said transmitter transmits TX speech information to each of the plurality of stations in a respective one of the n transmission time slots on the selected frequency; and

(b) said receiver receives RX speech information from each of the plurality of stations in one of the n reception time slots on the selected frequency; and

15 the plurality of stations including:

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a base station receiving from the primary station the TX speech information originated from a secondary station in said respective transmission time slot and transmitting the RX speech information in said respective reception time slot; and

[a] the secondary station having:

20 (i) a radio receiver which receives the synchronization information from the primary station and identifies the assignment of time slots and which receives from the primary station the TX speech information originating from the base station in said respective transmission time slot; and

(ii) a radio transmitter which transmits the RX speech information in said
25 respective reception time slot; and

wherein using the primary station for transmissions between the base station and secondary station is transparent to the base station and secondary station.

sub. E2 15. (Twice Amended) A telecommunication station for communicating with a base station and a secondary station using wireless transmissions, the station comprising:

a transmitter which:

(i) transmits synchronization information including the assignment of $2n$ fixed periodic time slots, where n is an integer greater than 1, on a selected frequency, n fixed periodic transmit time slots for transmission from said telecommunication station and n fixed periodic reception time slots for reception by said telecommunication station; and

(ii) transmits TX information to the base station and the secondary station on the selected frequency in respective ones of said n assigned transmit slots; and

10 a receiver which receives RX information from the base station and the secondary station on the selected frequency in respective ones of said n assigned reception slots; and

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Cont. wherein using the telecommunication station for communications between the base station and secondary station is transparent to the base station and secondary station.

16. (Amended) A telecommunication system comprising the telecommunication station of claim 15 and a secondary station which includes:

I' (i) a secondary station receiver which receives the synchronization information from said telecommunication station, identifies the assignment of time slots on said selected frequency, and receives the TX information on the selected frequency in a respective one of said assigned transmit slots; and

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(ii) a secondary station transmitter which transmits a signal carrying the corresponding RX information of [the] m duplex telephonic communications on the selected frequency in m of said assigned reception slots.

17. (Amended) A telecommunication station according to claim 15 wherein the [second] secondary station is a subscriber unit which is positioned outside a communicating range of said base station at a remote location whereat direct communication with said base station can not be made.

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19. (Twice Amended) A telecommunication station for communicating with a base station and a secondary station using wireless transmissions, the telecommunication station comprising:

a transmitter which:

5 (i) transmits synchronization information including the assignment of fixed periodic time slots on a selected frequency, at least two fixed periodic transmit time slots for transmission from said telecommunication station and at least two fixed periodic reception time slots for reception by said telecommunication station; and

10 (ii) transmits a signal carrying [TX] information received [transmitted] from the base station on the selected frequency in a first assigned transmit slot and carrying [TX] information [transmitted] received from the [second] secondary station on the selected frequency in a second assigned transmit slot; and

a receiver which:

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(i) receives the [RX] information transmitted from [a] the base station on the selected frequency in a first assigned reception slot; and

(ii) receives the [RX] information transmitted from [a] the secondary station on the selected frequency in a second assigned reception slot; and

wherein using the telecommunication station for communications between the base station and secondary station is transparent to the base station and secondary station.

25. (Amended) A telecommunication system according to claim 11 wherein the primary station equalizes base station transmissions [cleans received RX information] prior to retransmission to the secondary station [transmission as TX information].

29. (Amended) A telecommunication station according to claim 15 wherein the primary station equalizes base station communications [cleans received RX information] prior to retransmission to the secondary station [transmission as TX information].

31. (Amended) A telecommunication station according to claim 19 wherein the primary station equalizes base station communications prior to retransmission to [is transparent to the base station and] the secondary station.

REMARKS

Claims 11 and 13-31 were pending in this application. By this Reply, claims 24 and 28 have been cancelled; and claims 11, 15, 16, 17, 19, 25, 29 and 31 have been amended.